

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 92-134
NPDES NO. CA0028282

WASTE DISCHARGE REQUIREMENTS FOR:

DEPARTMENT OF THE NAVY
HUNTERS POINT
SAN FRANCISCO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter call the Board) finds that:

1. The Department of the Navy, Hunters Point, hereinafter called the Discharger, by application dated May 18, 1990, has applied for the reissuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. The Discharger repairs and performs maintenance on various seagoing vessels at six graving docks (Dry Docks Nos. 2, 3, 4, 5, 6, and 7) located at Hunters Point Naval Shipyard in San Francisco.

Only Dry Docks 3 and 4 have been used in the last 10 years.

Presently, none of the graving docks are in service. But Dry Dock 4 can be recommissioned for immediate use; Dry Dock 3 needs to be pumped out; and the remaining ones need modifications before use.

3. Waste generated at these facilities is discharged into the San Francisco Bay, a water body of the State. The report of waste discharge describes the existing discharges as follows:

Waste 001 through 006 consists of residual spent abrasives which remain on the concrete floor of the six dry docks. The abrasives may include decaying marine organisms, heavy metals, toxic paint residues, and oil and grease. The residual spent abrasives come in contact with the Bay water when the dry dock is flooded and when the water is discharged.

Waste 007 through 012 consists of gate leakage water, ship hull wash water, and cooling waters from ships being repaired in the dry docks. During ship repair operations, all the water in the dry dock is collected in a sump and then pumped into the Bay via a small capacity pump. Any spills of liquid wastes during maintenance and repair work could enter the sump at the lower end of the graving dock and could be pumped into the Bay waters immediately outside the graving dock. This water may come into contact with the spent abrasives described above and may contain the same constituents. The quantity of wastewater discharged varies greatly.

Approximately 10,000 gallons of water is discharged after being used to wash a ship's hull compared with the 1.4 million gallons of leakage water in Dry Dock 4 that gets discharged once a week.

4. Waste Discharge Requirements, Order No. 85-126 presently governs this discharge into Central San Francisco Bay.
5. The State Water Resource Control Board adopted statewide Water Quality Objectives on April 13, 1991. In compliance to the Objectives, the Regional Board revised the December 1986 Water Quality Control Plan for the San Francisco Bay Region (Basin Plan).
6. The Regional Board adopted a revised Basin Plan on September 16, 1992. The Basin Plan contains water quality objectives for Central San Francisco Bay and contiguous waters.
7. The beneficial uses of the Central San Francisco Bay and contiguous water bodies are:
 - a. Water contact recreation
 - b. Non-contact water recreation
 - c. Wildlife Habit
 - d. Preservation of Rare and Endangered Species
 - e. Fish migration and spawning
 - f. Industrial service and process supply
 - g. Shellfish harvesting
 - h. Navigation
 - i. Commercial and sport fishing
8. The Basin Plan prohibits discharge of any wastewater which has particular characteristics of concern to beneficial uses at any point at which wastewater does not receive a minimum initial dilution of 10:1. The Board finds that the proposed discharge does not have particular characteristics of concern, provided the discharge limitations contained in this Order are met.
9. Effluent limitation, toxic effluent standards, established pursuant to Section 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.
10. Effluent limitation guidelines requiring the application of best available technology economically achievable (BAT) for this point source category have not been promulgated by the U.S. Environmental Protection Agency. Effluent limitations of this Order are based on the Basin Plan, State Plans and policies, current discharge practice, and best professional judgement. The limitations are considered to be those attainable by BAT, in the judgment of the Board.

11. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000 of Division 13) of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
12. The Discharger and interested parties have been notified of the Board's intent to reissue waste discharge requirements and have been provided with the opportunity for a public hearing and to submit their comments.
13. The Board, at a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED that the Department of the Navy; in order to meet the provisions contained in Division 7 of the California Water Code and the regulations adopted thereunder, and the provisions of the Clean Water Act and the regulations and guidelines adopted thereunder; shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The direct discharge of spent abrasive sweepings and paint residues from the graving docks, ships, or piers servicing ships to waters of the State is prohibited.
2. The placement of collected abrasives and paint residues is prohibited in areas where the materials may be washed into waters of the State by stormwater runoff, tide, or wave action.
3. The discharge of sanitary sewage from vessels with sewage holding tanks to waters of the State is prohibited.
4. The discharge of sewage or liquid waste from a vessel located in the graving dock to the graving dock floor is prohibited.

B. EFFLUENT LIMITATIONS

1. The discharge of Waste 001 through 006 shall not exceed those quantities remaining after the following measures have been taken:

Prior to the flooding of the graving dock - either to receive or refloat a vessel - all spent abrasives, paint residues, and other visible debris shall be removed from those areas of the graving dock floor which are readily accessible. They are to be removed to a degree achievable by scraping and sweeping. This provision shall not apply when a vessel must enter the graving dock for an emergency reason, such as to prevent sinking, or leakage of oil or other materials. The Executive Officer shall be notified in such cases.

2. Waste 007 through 012 shall not contain constituents in excess of the following limits:

<u>CONSTITUENTS</u>	<u>UNITS</u>	<u>MONTHLY AVERAGE</u>	<u>MAXIMUM DAILY</u>
Chromium	ug/l	--	50
Copper	ug/l	--	4.9
Lead	ug/l	--	5.6
Zinc	ug/l	--	86
Oil and Grease	mg/l	20	10
Settleable Solids	mg/1-hr	0.1	0.2
Total Suspended Solids	mg/l	30	45
Tributyltin	ug/l	0.005	0.01

3. The pH of Waste 001 through Waste 012 shall not exceed 8.5 nor be less than 6.5 pH units.
4. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

TOXICITY: The survival of organisms in undiluted effluent shall be a median value of not less than 90 percent survival, and a 90 percentile value of not less than 70 percent survival. Test organisms and methods shall be specified in chapter IV of the Basin Plan.

C. RECEIVING WATER LIMITATIONS

1. The discharge of waste shall not cause the following conditions to exist in waters of the State:
- Floating, suspended, or deposited macroscopic particulate matter or foam;
 - Bottom deposits or aquatic growths;
 - Alteration of temperature, turbidity, or apparent color beyond present background levels;

- d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl; or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State within one foot of the water surface:
 - a. Dissolved Oxygen 5.0 mg/l minimum. Median of any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentrations than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
 - b. pH Variation from natural ambient pH by more than 0.5 pH units.
 3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise this Order in accordance with such more stringent standards.

D. PROVISIONS


1. The requirements prescribed by this Order supersede the requirements prescribed by Order 85-126. Order 85-126 is hereby rescinded.
2. Where the concentration limits are in mg/l in this permit, the following mass emission limitations shall also apply:

Mass Emission Limit in (lbs/day, kg/day) = Concentration Limit in mg/l x (8.34, 3.79) x Actual Flow in mgd averaged over the time interval to which the limit applies.
3. During the period between November 1 and May 1, the Discharger shall clean the graving dock floors as often as needed. This should eliminate or minimize the discharge of pollutants into the Bay via stormwater runoff.

4. The Discharger shall comply with all sections of this Order immediately upon adoption.
5. The Discharger shall review and update annually its contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order, where the Discharger failed to develop and/or implement a contingency plan, will be basis for considering the discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.
6. The Discharger shall comply with the attached self-monitoring program, which may be revised by the Executive Officer.
7. The Discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements, and Definitions" dated April 1977, except items A.5, A.12, and B.5.
8. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulations (40 CFR 122.41K).
9. The Discharger shall permit the Regional Board or its authorized representatives:
 - a. Entry into premises in which effluent source is located or in which required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or method required by this Order.
 - d. Sampling of any discharge.
10. The Discharger shall maintain in good working order and operate, as efficiently as possible, all facilities in order to achieve compliance with the discharge requirements.
11. The Discharger shall maintain a copy of this Order at the site so that it will be available at all times to personnel operating the graving docks.

12. Pursuant to Environmental Protection Agency regulations (40 CFR 122.42[2]) the Discharger must notify the Regional Board as soon as it knows or has reason to believe (1) that they have begun or expect to begin, use of manufacture of a pollutant not reported in the permit application, or (2) a discharge of toxic pollutants not limited by this permit has occurred or will occur in concentrations that exceed the specified limits.
13. This Order expires November 17, 1997. The Discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Water Code no later than 180 days in advance of the expiration date as an application for issuance of new waste discharge requirements.
14. In the event of any changes in control or ownership of the graving docks, the Discharger shall notify the succeeding owner or operator of the existence of this Order by a letter. A copy of the letter shall be forwarded to this Board.
15. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administer objects to its issuance, the permit shall not become effective until the objection is withdrawn.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on November 18, 1992.


Steven R. Ritchie
Executive Officer

Attachments:

- A. Standard Provisions and Reporting Requirements, April 1977
- B. Self-Monitoring Program
- C. Resolution No. 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

U.S. Department of the Navy
Hunters Point

NPDES NO. CA0028282

ORDER NO. 92-134

CONSISTS OF
Part A dated January 1978
and
Part B

Part B

A. MONITORING PROGRAM

1. Sampling, analysis, and observation shall be performed at the below locations:

- a. **Effluent**

<u>Station</u>	<u>Description</u>
E-001 thru E-006 (Graving docks Nos. 2 - 7)	In each graving dock prior to flooding
E-007 thru E-012 (Graving docks Nos. 2 - 7)	At any point in the outfall pipe from the collection sump at which all waste tributary to the sump is present

- b. **Receiving Waters**

<u>Station</u>	<u>Description</u>
C-R	In San Francisco Bay immediately outside all the graving docks

2. Schedule of sampling, measurement, and analysis

- a. Stations E-001 through E-006:
Prior to the flooding of the graving docks, observe, certify, and record the adequacy of the cleanliness of the areas. Indicate the dates and time the graving docks observation, flooding, and use. Regional Board staff shall be notified at least 48 hours prior to the flooding of any graving dock.
 - b. Stations E-007 through E-012:
The schedule of sampling, measurement, and analysis shall be given as Table I.

B. Modification of Part A, dated January 1978

1. Exclusions:
Sections E.1.a. and E.4.
2. Modifications
Section G.4. shall be modified as follow: "Written reports shall be prepared quarterly and shall be **received by the Regional Board by the fifteenth day of the month** following the quarter (e.g. January-March report is due April 15th)."

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board's Order No. 92-134
2. Has been ordered by the Executive Officer on November 18, 1992 and has become effective immediately.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Discharger and revisions will be ordered by the Executive Officer.



STEVEN R. RITCHIE
Executive Officer

TABLE 1
SCHEDULE FOR SAMPLING, MEASUREMENT, AND ANALYSIS

[illegible]

TABLE 1 (continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-007	to	E-012		C-R								
TYPE OF SAMPLE	G				O								
Mercury (mg/l & kg/day)													
Nickel (mg/l & kg/day)													
Zinc (mg/l & kg/day)	M ¹												
Phenolic Compounds (mg/l & kg/day)													
Tributyltin (µg/l (ppb))	Y												
Bottom Sediment Analysis and Observation													
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)													
All Applicable Standard Observations	M ¹				M ¹								

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
 C-24 = composite sample - 24-hour
 C-X = composite sample - X hours
 (used when discharge does not
 continue for 24-hour period)
 Cont = continuous sampling
 DI = depth-intergrated sample
 BS = bottom sediment sample
 O = observations

TYPES OF STATIONS

I = intake and/or water supply stations
 A = treatment facility influent stations
 E = waste effluent stations
 C = receiving water stations
 P = treatment facilities perimeter stations
 L = basin and/or pond levee stations
 B = bottom sediment stations
 G = groundwaters stations

FREQUENCY OF SAMPLING

E = each occurrence	2/H = twice per hour	2H = every 2 hours
H = once each hour	2/W = 2 days per week	2D = every 2 days
D = once each day	5/W = 5 days per week	2W = every 2 weeks
W = once each week	2/M = 2 days per month	3M = every 3 months
M = once each month	2/Y = once in March and	Cont = continuous
Y = once each year		once in September
	Q = quarterly, once in March, June, September, and December	

Note:

¹Quarterly samples can be taken if there is discharge but no ship in the graving dock.